

PROJECT TITLE : CIGARETTE DEVELOPMENT 2  
PERIOD COVERED : JUNE 27 - AUGUST 21, 1981  
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369 BEAUMONT

Objective

To reproduce and confirm the analytical values obtained with cigarette prototype No 12 T, previously produced at FTR, with the BEAUMONT cigarette produced at PMG Munich.

Tar (UK) : 4.5 mg/cig.  
SN : 0.44 mg/cig.  
CO : 6.8 mg/cig.

Description of samples and results

Using tobacco blend No GB0236905N02 (FTR) and the cigarette design of the prototype No 12 T (blind tested in the UK on November 14, 1980), two cigarette versions were produced at PMG Munich on July 23, 1981 and received by R & D at FTR for complete analysis to ascertain whether the tar delivery is within the proposed objective.

The design and the analytical results obtained with the two submitted versions are presented below :

	<u>Version No 1</u>	<u>Version No 2</u>
Tobacco blend	GB0236905N02 (FTR)	-----
Tobacco blend	NR-95 (PMG Munich)	-----
<u>Cut-filler :</u>		
TA	% 2.05	2.06
RS	% 8.5	8.6
N-NO <sub>3</sub>	% 0.22	0.23
Filter type	Acetate 2.5Y/48 with FU-POV 100 K	Acetate 2.5Y/48 with FU-POV 150 K
Cigarette paper	Mauduit 110-6	-----
Tipping paper	Malaucène 4 M. x 0.15 . 4.5	-----

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		<u>Version No 1</u>	<u>Version No 2</u>
<u>Cigarette format :</u>			
Diameter	mm	7.95	7.95
Filter total length	mm	25	25
Cigarette total length	mm	84.4	84.4
<u>Cigarette :</u>			
Total weight	mg/cig.	923	929
Tobacco weight	mg/cig.	644	649
Total RTD	mm WG	112	109
Filter RTD	mm WG	102	107
Dilution	%	48	52
Compressibility at 12 % moisture	mm	3.02	3.13
Filler density at 12 % moisture	mg/ml	221	222
<u>Smoke :</u>			
TPM	mg/cig.	6.8	5.9
DPM	mg/cig.	6.3	5.4
SN	mg/cig.	0.53	0.47
Tar "UK"	mg/cig.	5.8	4.9
CO	mg/cig.	6.8	5.7
NO	mg/cig.	0.13	0.12
Puff count		7.6	7.7

The cigarettes were smoked on a 20-port smoking machine to 37 mm butt length following the Coresta method.

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#### Comments

The BEAUMONT version No 2, even with a slightly higher tar delivery, appeared to be the only possible candidate for the first production day.

Following fluctuations in analytical values due to normal changes in blend quality, PMG Munich was immediately asked to collect and analyze, at intervals, BEAUMONT cigarettes produced during a production day (August 18, 1981). The analytical values of these cigarettes were right on target. Cigarettes were then taste tested by the Leaf experts in Lausanne who found the organoleptic characteristics of the product test to be within the objective.

As a preventive measure, PMG Munich was then asked to produce a few trays of BEAUMONT cigarettes by using Malaucène tipping paper type 6 M. x 0.15.4.5 to be analyzed in parallel with those produced like version No 2. The analytical results obtained showed that a 6-row tipping paper would not be feasible because this lowers the tar delivery too much. Should it become urgent to replace the 4-row tipping paper due to its too high tar delivery, a 5-row tipping paper should be considered.

To date, the objective BEAUMONT UK has been fulfilled and, the launching of the product is planned for mid-September.

Objective

To develop a MARLBORO cigarette of the Pan-European type by using a special flavour system, on tobacco only, thus eliminating flavoured filters, while conforming to the Hunter list.

Description of samples and results

Using the standard MARLBORO blend UK No G80120804N02 and the standard MLK CH construction, on the basis of prototype No 43 P version F (see report March-April 1981), another three prototypes were produced by varying the concentration of ingredients in the AC solution. The description and results of the above-mentioned prototypes are shown in the table below :

Prototype No:		50 P	51 P	52 T	MLK CH
Version		L	M	N	
<u>Cut-filler :</u>					
TA	%	11.88		1.87	1.85
RS	%	6.6		6.4	7.8
N-NO <sub>3</sub>	%	0.26		0.23	0.20
Filter type		MLK-PB-120 -----			
Cigarette paper		WP 60 -----			
Tipping paper		Z3 / 60 -----			
<u>Cigarette format :</u>					
Diameter	mm	7.95 -----			
Filter total length	mm	20 -----			
Cigarette total length	mm	84.4 -----			
<u>Cigarette :</u>					
Total weight	mg/cig.	1053	1049	1055	1065
Tobacco weight	mg/cig.	825	823	826	835
Total RTD	mm WG	103	103	94	99
Filter RTD	mm WG	66	63	96	65
Dilution	%	16	17	23	18
Compressibility at 12 % moisture	mm	3.18	3.21	3.18	3.51
Filler density at 12 % moisture	mg/ml	255	255	258	259

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Prototype No		50 P	51 P	52 T	MLK CH
Version		L	M	N	
<u>Smoke :</u>					
TPM	mg/cig.	17.4	17.8	16.6	20.0
DPM	mg/cig.	15.7	16.0	15.3	17.9
SN	mg/cig.	1.08	1.18	1.15	1.25
Tar "UK"	mg/cig.	14.6	14.8	14.2	16.6
CO	mg/cig.	17.6	17.7	16.1	17.4
NO	mg/cig.	0.27	0.27	0.24	0.23
Puff count		9.2	9.4	9.1	10.1

All the above prototypes were taste tested by Panel A who found prototype No 52 T version N to be the best alternative we ever had for an European MARLBORO blend (according to the Hunter list), especially as far as American blend characteristics are concerned. The decision for an immediate Panel D test was taken. The results of the test showed a clear preference for the MLK CH against the prototype, the latter being stronger and biting in taste.

#### Comments:

At this stage, everything concerning project TENNIS UK became confused and the situation called for a second Panel D tasting which is now under way.

This second test concerns TENNIS prototype No 53 P, representing the 100 % US version refused by Panel A at an earlier date (see "Test de dégustation" No FR-53, under prototype No 38 P version A, dated April 3, 1981), versus the current MLK CH.

If the outcome of this test is positive for the MLK CH then the feasibility of project TENNIS should be reviewed and rediscussed at the coming September meeting in Richmond.

Objective

To develop a low-tar cigarette delivering 4.0 mg tar, whose taste is not rejected by SILK CUT smokers, while conforming to the Hunter list.

Description of samples and results

For the task, a freshly prepared tobacco blend, the same as for HILTON prototype No 41-C 3 (MER Boost program), was used.

Six cigarette prototypes of different designs were produced and taste tested by Panel A. The Leaf experts preferred prototype No 1 P, this being mild, uniform and pleasant to smoke and more in line with an American blend cigarette than a Virginia one.

The construction and the analytical results of the chosen prototype are given below :

Prototype No	1 P
Version	B
Tobacco blend No	GB0229001R02
<u>Cut-filler :</u>	
TA	% 20
RS	% 11.2
N-NO <sub>3</sub>	% 0.17
Filter type	2.5 Y / 48 with FU-POV 100 K
Cigarette paper	MC-HP 5 (Fletcher)
Tipping paper	6 M. x 0.15.4.5

Cigarette format :

Diameter	mm	7.95
Filter total length	mm	25
Cigarette total length	mm	84.4

Cigarette :

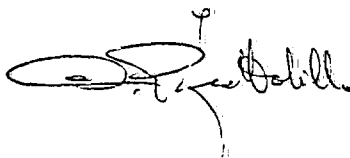
Total weight	mg/cig.	1032
Tobacco weight	mg/cig.	763
Total RTD	mm WG	102
Filter RTD	mm WG	111
Dilution	%	54
Compressibility at 12 % moisture	mm	2.91
Filler density at 12 % moisture	mg/ml	259

Smoke :

TPM	mg/cig.	5.3
DPM	mg/cig.	4.9
SN	mg/cig.	0.46
Tar "UK"	mg/cig.	4.4
CO	mg/cig.	7.2
NO	mg/cig.	0.09
Puff count		8.9

Comments

Because of the PMS test results, it has been recommended not to test this cigarette in the UK.



ANF/cap/AUGUST 25, 1981

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